

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: M116027
Date Received: 03/22/07
Date Extracted: 03/22/07
Date Analyzed: 03/23/07
Matrix: Water
Units: ug/L (ppb)

Client: Alaskan Copper Works
Project: PO# M116027, F&BI 703215
Lab ID: 703215-01 x10
Data File: 703215-01 x10.033
Instrument: ICPMS1
Operator: HR

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	732
Nickel	611
Copper	188
Zinc	30.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	PO# M116027, F&BI 703215
Date Extracted:	03/22/07	Lab ID:	I7-102 mb
Date Analyzed:	03/23/07	Data File:	I7-102 mb.008
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	HR

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	92	60	125
Bismuth	92	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/07

Date Received: 03/22/07

Project: Metro Self Monitor, PO# M116027, F&BI 703215

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS BY EPA METHOD 200.8

Laboratory Code: 703200-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	<1	<1	nm	0-20
Nickel	ug/L (ppb)	1.75	1.78	2	0-20
Copper	ug/L (ppb)	1.38	1.34	3	0-20
Zinc	ug/L (ppb)	10.3	9.87	4	0-20

Laboratory Code: 703200-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	<1	95	50-150
Nickel	ug/L (ppb)	20	1.75	96	50-150
Copper	ug/L (ppb)	20	1.38	94	50-150
Zinc	ug/L (ppb)	50	10.3	103 b	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	104	70-130
Nickel	ug/L (ppb)	20	104	70-130
Copper	ug/L (ppb)	20	106	70-130
Zinc	ug/L (ppb)	50	100	70-130

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
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e-mail: fbi@isomedia.com



March 28, 2007

INVOICE #07ACU0328-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M116027, F&BI 703215 - Results of testing
requested by Gerry Thompson for material submitted on March 22, 2007.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 200.8 @ \$80 per sample	\$ 80.00
Rush Charges (4 day) 60% of \$80.00	<u>48.00</u>
Amount Due	\$ 128.00

FEDERAL TAX ID # (b) (6)

703215

SAMPLE CHAIN OF CUSTODY

ME 03/22/07AIS

Send Report To

Gerald Thompson

Company

Alaskan Copper Works

Address

628 S. Harbor St

City, State, ZIP

Seattle WA 98134

Phone #

206-571-6033

Fax #

206-382-4309

SAMPLERS (signature)

PROJECT NAME/NO.

METRO SELF monitor

PO #

M116027

REMARKS

SAX Results

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH 7 day

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes	
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS						
M116027	01	3/22/07	12:30	H2O	1							X					

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

G. ThompsonNhan Phan

COMPANY

ACWFe BE

DATE

3/22/073/22/07

TIME

1:34pm1:34pmSamples received at 18 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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March 28, 2007

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on March 22, 2007 from the Metro Self Monitor, PO# M116027, F&BI 703215 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0328R